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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,390	04/30/2001	John M. Baron	10006918-1	2736
22879	7590	10/05/2005	EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			HANNETT, JAMES M	
			ART UNIT	PAPER NUMBER
			2612	

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/845,390	BARON, JOHN M.	
	Examiner	Art Unit	
	James M. Hannett	2612	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 02 September 2005.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-20 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 03 December 2004 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/2/2005 has been entered.

Response to Arguments

Applicant's arguments filed 12/3/2004 have been fully considered but they are not persuasive. The applicant has amended the claims to include new limitations not addressed in the prior office action. The applicant argues that the prior art does not teach these new limitations. The examiner has addressed these new limitations in the following grounds of rejection. In regards to the applicants arguments that the prior art does not meet the new limitations as includes in the independent claims. The examiner asserts that Pavley teaches on Column 5, Lines 61-67 and Column 6, Lines 1-18 and depicts in Figure 1 a method for handling image data within a digital camera (114) having a memory storage unit (350 and 354) for storing image data, each image data element having an archival status; and indicating said archival status of the image data element. Furthermore, Pavley teaches on Column 6, Lines 1-6 determining capacity for the camera to add additional image data elements to the image storage. Pavley teaches that when an image is captured, the camera determines if there is sufficient memory space to store the image. Pavley teaches that if more space is needed, the new image will be stored by

deleting images from memory which have been backed up elsewhere. The camera of Pavley determines which images have been backed up by checking the archival status of the images. Therefore, Pavley teaches determining the capacity for the camera to add additional image data elements to the image storage as a function of the archival status. However, Pavley does not teach that the images are stored in an image storage queue in chronological order and deleting images based on the time at which the images were captured. To meet this limitation the examiner relied upon Anderson et al to teach on Column 6, Lines 62-67 and Column 4, Lines 52-61 That it is advantageous to save images in a digital camera using an image queue (78) so that the images can be read in and out on a first in first out basis. This is advantageous because it allows the image stored in the camera for the longest period of time to be erased first. Therefore, since the images are stored on a FIFO basis, the images are viewed by the examiner to be saved in chronological order based on the time of image capture.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

- 1: Claims 1, 3-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,445,460 Pavley in view of USPN 6,177,956 Anderson et al.
- 2: As for Claim 1, Pavley teaches on Column 5, Lines 61-67 and Column 6, Lines 1-18 and depicts in Figure 1 a method for handling image data within a digital camera (114)

having a memory storage unit (350 and 354) for storing image data, the camera connectable to an external information handling system (110) adapted to receive image data from the camera, the method comprising: storing image data elements, each image data element having an archival status; and indicating said archival status of the image data element. Furthermore, Pavley teaches on Column 6, Lines 1-6 determining capacity for the camera to add additional image data elements to the image storage. Pavley teaches that when an image is captured, the camera determines if there is sufficient memory space to store the image. Pavley teaches that if more space is needed, the new image will be stored by deleting images from memory which have been backed up elsewhere. The camera of Pavley determines which images have been backed up by checking the archival status of the images. Therefore, Pavley teaches determining the capacity for the camera to add additional image data elements to the image storage as a function of the archival status. However, Pavley does not teach that the images are stored in an image storage queue in chronological order and deleting images based on the time at which the images were captured.

Anderson et al teaches on Column 6, Lines 62-67 and Column 4, Lines 52-61 that it is advantageous to save images in a digital camera using an image queue (78) so that the images can be read in and out on a first in first out basis. This is advantageous because it allows the image stored in the camera for the longest period of time to be erased first. Therefore, since the images are stored on a FIFO basis, the images are viewed by the examiner to be saved in chronological order based on the time of image capture.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to store the images captured by the camera of Pavley consecutively in an image storage queue in order to allow the image stored in the camera for the longest period of time to be erased first.

3: As for Claim 3, Pavley further teaches on Column 5, Lines 39-45 each image data element has a filename, and wherein the indicating comprises naming the filename to indicate the archival status. A file attribute designation is viewed by the examiner as a file name. The system of Pavley in view of Anderson is viewed by the examiner as a directory system.

4: In regards to Claim 4, Pavley teaches on Column 4, Lines 44-60 and Column 5, Lines 39-45 and depicts in Figure 4 forming a region in memory that stores the image data (810) and other information such as header information (805) and file attributer designators (825). This is viewed as creating an organizational structure comprising a reserved location for archived image data elements (810); Pavley teaches that a file attribute designator can be set to indicate that the stored image data has been archived. Therefore, the archived image data is places in the image data area (810) of the image file. Image data area (810) is viewed as the reserved location. The system of Pavley in view of Anderson is viewed by the examiner as a directory system.

5: As for Claim 5, Pavley further teaches on Column 6, Lines 10-17 archiving one image data element, the archiving comprising copying the image data element to the external information handling system (computer system); and changing the archival status of the image data element to indicate that the data element is archived.

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6: In regards to Claim 6, Pavley further teaches on Column 4, Lines 44-47 and depicts in Figure 4 associating each image data element with a header (805) and image tags (825) which indicate that the image has been archived. Official notice is taken that it was well known in the art at the time the invention was made to restructure data packet information and to change the location of different data within the packets.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the header section (805) and the image tags section (825) of the data in Pavley. So that the image tag data was contained in the header information.

7: As for Claim 7, Pavley further teaches on Column 5, Lines 43-45 a data bit indicating archival status, wherein the changing the contents of the header comprises inverting the data bit.

8: In regards to Claim 8, It is inherent that the image files have filenames that comprise at least one character. Furthermore, Pavley further teaches on Column 5, Lines 43-45 the use of a data bit for indicating archival status. The changing of the data bits to indicate archival status is viewed by the examiner to be changing a character. The system of Pavley in view of Anderson is viewed by the examiner as a directory system.

9: As for Claim 9, Pavley further teaches on Column 6, Lines 10-17 receiving a selection from the camera (110) of one image data element (image file) to the computer (1100) for archiving.

10: In regards to Claim 10, Pavley further teaches on Column 6, Lines 10-17 the archiving comprises: connecting the camera (110) to the external information handling

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system (computer system); and copying the image data element from the memory storage unit in the camera to the external information handling system.

11: As for Claim 11, Pavley teaches on Column 6, lines 1-18 and Column 2, Lines 34-47 the archiving comprises: copying the image data element from the memory in the camera (110) to the external information handling system (1100). Pavley teaches that the computer has an optional removable memory port (352) to receive a removable memory card (354). Pavley does not specifically teach that the memory in the camera comprises removable memory.

Official notice is taken that it was well known in the art at the time the invention was made to equip digital cameras with removable memory cards so that the memory capacity of the camera could be substantially increased.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to equip the camera or Pavley with removable memory cards so that the memory capacity of the camera could be substantially increased and to remove the memory cards and connect the removable storage medium to the computer via the memory card interface (352).

12: In regards to Claim 12, Pavley further teaches on Column 5, Lines 63-67 and Column 6, Lines 1-7 determining that the memory storage unit is full; determining that at least one image data element in the image storage queue has been archived; and deleting from the memory storage unit at least one archived image data element. Furthermore, Anderson et al teaches on Column 6, Lines 62-67 and Column 4, Lines 52-61 That it is advantageous to save images in a digital camera using an image queue (78) so that the images can be read in and out on a first in first out basis. Therefore, since the images are

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stored on a FIFO basis, the images are viewed by the examiner to be saved in chronological order based on the time of image capture.

13: As for Claim 13, Anderson et al teaches on Column 6, Lines 62-67 and Column 4, Lines 52-61 that the images are stored in a queue in which the oldest or last image is deleted (FIFO)

14: In regards to Claim 14, Pavley further teaches on Column 5, Lines 63-67 and Column 6, Lines 1-7 determining that the memory storage unit is full and determining if none of the image data elements in the image storage queue have been archived. Pavley teaches that if no images have been archived more storage space is needed. However, Pavley does not teach the method of notifying a user that the memory storage unit is full.

Official notice is taken that it was well known in the art at the time the invention was made to notify users when a memory is full so that a user can take appropriate action and change a memory card if desired.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to notify to user of the camera of Pavley when the memory is full so that a user can take appropriate action and change a memory card if desired.

15: As for Claim 15, Pavley further teaches on Column 6, Lines 3-9 receiving a selection of an image data element for deletion; and deleting the selected image data element from the memory storage unit. Pavley teaches that the memory management system selects an image file that had been archived and deletes the file since the archived status indicates that the file has been backed up by copying the image data to the personal computer.

16: In regards to Claim 16, Pavley teaches on Column 5, Lines 61-67 and Column 6, Lines 1-18 and depicts in Figure 1 a method for handling image data within a digital camera (114) having a memory storage unit (350 and 354) for storing image data, the camera connectable to an external information handling system (110) adapted to receive image data from the camera, the method comprising: storing image data elements, each image data element having an archival status; and indicating said archival status of the image data element. Furthermore, Pavley teaches on Column 6, Lines 1-6 determining capacity for the camera to add additional image data elements to the image storage. Pavley teaches that when an image is captured, the camera determines if there is sufficient memory space to store the image. Pavley teaches that if more space is needed, the new image will be stored by deleting images from memory which have been backed up elsewhere. The camera of Pavley determines which images have been backed up by checking the archival status of the images. Therefore, Pavley teaches determining the capacity for the camera to add additional image data elements to the image storage as a function of the archival status. However, Pavley does not teach that the images are stored in an image storage queue in chronological order and deleting images based on the time at which the images where captured.

Anderson et al teaches on Column 6, Lines 62-67 and Column 4, Lines 52-61 That it is advantageous to save images in a digital camera using an image queue (78) so that the images can be read in and out on a first in first out basis. This is advantageous because it allows the image stored in the camera for the longest period of time to be erased first. Therefore, since the images are stored on a FIFO basis, the images are

viewed by the examiner to be saved in chronological order based on the time of image capture.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to store the images captured by the camera of Pavley consecutively in an image storage queue in order to allow the image stored in the camera for the longest period of time to be erased first.

17: As for Claim 17, Pavley does not specifically teach that the memory in the camera comprises removable memory.

Official notice is taken that it was well known in the art at the time the invention was made to equip digital cameras with removable memory cards so that the memory capacity of the camera could be substantially increased.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to equip the camera or Pavley with removable memory cards so that the memory capacity of the camera could be substantially increased.

18: In regards to Claim 18, Pavley teaches on Column 5, Lines 61-67 and Column 6, Lines 1-18 and depicts in Figure 1 a method for handling image data within a digital camera (114) having a memory storage unit (350 and 354) for storing image data, the camera connectable to an external information handling system (110) adapted to receive image data from the camera, the method comprising: storing image data elements, each image data element having an archival status; and indicating said archival status of the image data element. Furthermore, Pavley teaches on Column 6, Lines 1-6 determining capacity for the camera to add additional image data elements to the image storage. Pavley teaches that when an image is captured, the camera determines if there is

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sufficient memory space to store the image. Pavley teaches that if more space is needed, the new image will be stored by deleting images from memory which have been backed up elsewhere. The camera of Pavley determines which images have been backed up by checking the archival status of the images. Therefore, Pavley teaches determining the capacity for the camera to add additional image data elements to the image storage as a function of the archival status. However, Pavley does not teach that the images are stored in an image storage queue in chronological order and deleting images based on the time at which the images where captured.

Anderson et al teaches on Column 6, Lines 62-67 and Column 4, Lines 52-61 that it is advantageous to save images in a digital camera using an image queue (78) so that the images can be read in and out on a first in first out basis. This is advantageous because it allows the image stored in the camera for the longest period of time to be erased first. Therefore, since the images are stored on a FIFO basis, the images are viewed by the examiner to be saved in chronological order based on the time of image capture.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to store the images captured by the camera of Pavley consecutively in an image storage queue in order to allow the image stored in the camera for the longest period of time to be erased first.

19: As for Claim 19, Pavley further teaches on Column 6, Lines 10-17 instructions for archiving one image data element, the archiving comprising copying the image data element to the external information handling system (1100); and instructions for

changing the archival status of the image data element to indicate that the data element is archived.

20: In regards to Claim 20, Pavley further teaches on Column 5, Lines 63-67 and Column 6, Lines 1-7 instructions for determining that the memory storage unit is full; instructions for determining that at least one image data element in the image storage queue has been archived; and instructions for deleting from the memory storage unit at least one archived image data element. Furthermore, Anderson et al teaches on Column 6, Lines 62-67 and Column 4, Lines 52-61 That it is advantageous to save images in a digital camera using an image queue (78) so that the images can be read in and out on a first in first out basis. Therefore, since the images are stored on a FIFO basis, the images are viewed by the examiner to be saved in chronological order based on the time of image capture.

21: Claims 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,445,460 Pavley in view of USPN 6,177,956 Anderson et al in further view of USPN 6,335,742 Takemoto.

22: In regards to Claim 2, Pavley further teaches on Column 4, Lines 44-47 and depicts in Figure 4 associating each image data element with a header (805) and image tags (825) which indicate that the image has been archived. Official notice is taken that it was well known in the art at the time the invention was made to restructure data packet information and to change the location of different data within the packets.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the header section (805) and the image tags

section (825) of the data in Pavley. So that the image tag data was contained in the header information.

Furthermore, Pavley in view of Anderson does not teach the use of including in the header information related to time and date of image capture.

Takemoto depicts in Figure 3 and teaches on Column 6, lines 34-45 that it is advantageous when designing an image file management system to include information related to image capture time and date captured in the header of the image file in order to allow the user of the image file system to easily remember when an image was captured.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include information related to date and time of image capture as taught by Takemoto in the image header of Pavley in view of Anderson in order to allow a user to easily determine the time and date of image capture.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M. Hannett whose telephone number is 571-272-7309. The examiner can normally be reached on 8:00 am to 5:00 pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James M. Hannett
Examiner
Art Unit 2612

JMH *[Signature]*
September 27, 2005



NGOC YEN VU
PRIMARY EXAMINER